



## Mathematical Practices Presentation Assignment

**Purpose:** The Common Core State Standards for Mathematics includes eight practice standards in addition to the content standards. The mathematical practices describe How students interact with the mathematical content, the What. Both the content and practice standards need to be taught together rather than in isolation in order to prepare students to develop as lifelong learners of math. This assignment is designed to help you learn more about one particular practice in order to teach the rest of the class about it through a flipped classroom model.

### What will you do:

1. Out-of-Class: Prepare a video module about your assigned mathematical practice for the rest of the class to view out of class. Length of video should be approximately 3-5 minutes. You will need to use one of the following free tools to record your presentation and then embed or provide a link on our wiki. The following are suggested tools:
  - a. Knovio - Screen in Screen Video- Create video with the use of ppt, images, and pdf files – can show video of instructor talking.
  - b. Educreations - Create video using a whiteboard for sketches, images, or documents from the Photo library or cloud storage (Dropbox, GoogleDrive)
  - c. Adobe Spark - Create video using images with voiceover & music
2. Out-of-Class: Provide an assignment that the class should complete in addition to watching your video that allows them to practice aspects of your particular mathematical practice. Ideas can include asking them to: solve a particular problem (use math tasks/assessments); locate a resource for teaching about that practice; provide a problem to a child (grades PreK-5) and observe how they use the practice; interviewing a child pertaining to the practice; complete a quiz about the practice; etc. Be creative and try not to use something that another student has used before you.
3. In-of-Class: Lead the class in discussion of the mathematical practice based upon the understanding that they have watched the video and completed their additional task. Briefly review the practice and review what you asked them to do for homework. You should have an additional activity, preferable a “math task/assessment” that allows the class to use elements of your assigned math practice.



### Grading Criteria for Mathematical Practice Presentation

	Points Possible
<b>Video Module</b> <ul style="list-style-type: none"> <li>Module is completed and uploaded to the wiki at least three days prior to class discussion.</li> <li>Module is 3-5 minutes in length</li> <li>Module is professional and accurately depicts the assigned mathematical practice</li> </ul>	25
<b>Out of Class Assignment</b> <ul style="list-style-type: none"> <li>An out-of class assignment is prepared for the rest of the class to complete in order to “practice” the math practice.</li> <li>This assignment is clearly explained so there is no doubt as to what your expectations are and posted to the wiki at least three days prior to class discussion.</li> </ul>	20
<b>In-Class Discussion/Activity</b> <ul style="list-style-type: none"> <li>Brief recap of the important aspects of the math practice.</li> <li>The class is allowed to process and share their out-of-class assignment.</li> <li>Be prepared with an additional in-class activity pertaining to your practice.</li> <li>The discussion &amp; activity should be approximately 30 minutes.</li> </ul>	25
<b>Total points</b>	<b>75 points</b>